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Water-Data Report 2006

**12202310 CARPENTER CREEK NEAR BELLINGHAM, WA**

Puget Sound Basin  
Strait of Georgia Subbasin

LOCATION.--Lat 48°45'15", long 122°21'10" referenced to North American Datum of 1927, in SW ¼ NW ¼ sec.30, T.38 N., R.4 E., Whatcom County, WA, Hydrologic Unit 17110002, on left bank 60 ft upstream from North Shore Drive, 8.2 mi east of Bellingham, and 0.1 mi upstream from Lake Whatcom.

DRAINAGE AREA.--1.17 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--May 2002 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 320 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair except November 26 to December 19, February 7 to April 10, August 3 to September 30 and estimated daily discharges, which are poor. No regulation or diversion upstream from station.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--4 years (water years 2003-06), 2.14 ft<sup>3</sup>/s, 24.91 in./yr, 1,550 acre-ft/yr. The figure for acre-ft/yr, published in the 2004 report was in error; the correct figure is 1,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 87 ft<sup>3</sup>/s, Nov. 25, 2004, maximum gage height, 9.82 ft, Nov. 19, 2003, backwater from culvert; minimum daily discharge, no flow on many days.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 25 ft<sup>3</sup>/s, Jan 30, gage height, 8.94 ft; minimum discharge, no flow, on several days.

**12202310 CARPENTER CREEK NEAR BELLINGHAM, WA—Continued**

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**  
**DAILY MEAN VALUES**  
[*e*, estimated]

<b>Day</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>1</b>	0.02	3.3	e1.1	3.9	8.3	2.1	e1.3	0.98	1.0	0.09	0.02	0.02
<b>2</b>	0.02	2.4	e1.2	3.9	6.9	e2.2	e1.3	0.85	1.1	0.08	0.02	0.01
<b>3</b>	0.02	1.9	e1.1	3.0	5.7	e1.8	e1.2	0.76	0.85	0.07	0.02	0.00
<b>4</b>	0.02	2.1	e1.0	2.7	9.2	e1.6	e1.1	0.69	1.3	0.06	0.02	0.00
<b>5</b>	0.02	2.3	1.2	4.1	15	e1.4	e1.0	0.63	1.5	0.06	0.02	0.00
<b>6</b>	0.04	4.4	1.4	6.2	7.6	e1.4	e1.0	0.58	1.3	0.07	0.02	0.00
<b>7</b>	0.14	3.4	0.99	4.9	4.8	e1.5	e0.95	0.78	1.0	0.06	0.01	0.00
<b>8</b>	0.09	3.1	0.89	4.5	4.2	e1.6	e0.95	0.60	1.1	0.05	0.01	0.00
<b>9</b>	0.05	2.6	0.73	5.4	2.6	e1.5	e1.2	0.54	1.1	0.05	0.08	0.08
<b>10</b>	0.05	2.5	0.72	10	e2.1	e1.4	e1.1	0.50	0.93	0.06	0.13	0.03
<b>11</b>	0.07	2.0	0.69	11	e1.7	e1.3	e1.0	0.48	0.83	0.06	0.06	0.02
<b>12</b>	0.05	2.0	0.80	8.3	e1.6	e1.1	1.1	0.45	0.72	0.11	0.05	0.01
<b>13</b>	0.05	2.4	0.81	8.6	e1.5	e1.1	1.2	0.42	1.1	0.16	0.04	0.01
<b>14</b>	0.05	2.4	0.48	6.7	e1.4	e1.2	3.7	0.39	0.90	0.11	0.03	0.03
<b>15</b>	0.09	1.8	0.37	4.1	e1.3	e1.1	4.2	0.37	0.76	0.07	0.03	0.02
<b>16</b>	0.15	1.7	0.33	5.0	e1.2	e1.1	3.0	0.33	0.65	0.06	0.03	0.01
<b>17</b>	1.6	1.3	0.30	8.0	e1.2	e1.0	2.1	0.30	0.54	0.05	0.03	0.02
<b>18</b>	1.3	1.0	e0.30	4.7	e1.1	e1.0	1.7	0.27	0.49	0.05	0.03	0.05
<b>19</b>	0.56	0.82	0.51	3.8	e1.1	e0.95	1.5	0.26	0.43	0.04	0.02	0.18
<b>20</b>	0.42	0.64	1.1	4.1	e1.0	e0.95	1.3	0.35	0.38	0.04	0.01	0.14
<b>21</b>	0.25	0.54	1.5	3.4	0.98	e1.0	1.7	0.31	0.35	0.04	0.01	0.12
<b>22</b>	0.14	0.43	2.0	3.0	1.0	e1.0	1.4	0.59	0.31	0.03	0.01	0.08
<b>23</b>	0.19	0.38	2.8	2.9	4.4	e1.1	1.2	0.57	0.29	0.03	0.01	0.06
<b>24</b>	0.20	0.40	3.9	2.5	e2.0	e1.1	1.1	0.53	0.26	0.02	0.02	0.05
<b>25</b>	0.13	2.4	6.6	2.5	e1.8	e1.1	0.98	1.6	0.22	0.02	0.02	0.05
<b>26</b>	0.12	3.1	5.4	3.0	2.0	e1.0	0.91	1.4	0.19	0.03	0.01	0.04
<b>27</b>	0.10	2.2	4.4	2.9	2.6	e0.95	0.91	1.2	0.16	0.02	0.01	0.04
<b>28</b>	0.22	1.3	4.1	3.0	2.0	e1.1	0.82	1.2	0.14	0.03	0.01	0.04
<b>29</b>	0.33	1.5	3.7	4.4	---	e1.1	1.1	1.0	0.12	0.03	0.00	0.03
<b>30</b>	0.30	1.5	3.2	18	---	e1.1	1.00	0.91	0.11	0.04	0.07	0.03
<b>31</b>	1.8	---	3.7	10	---	e1.0	---	0.79	---	0.03	0.03	---
<b>Total</b>	8.59	57.81	57.32	168.5	96.28	38.85	43.02	20.63	20.13	1.72	0.88	1.17
<b>Mean</b>	0.28	1.93	1.85	5.44	3.44	1.25	1.43	0.67	0.67	0.06	0.03	0.04
<b>Max</b>	1.8	4.4	6.6	18	15	2.2	4.2	1.6	1.5	0.16	0.13	0.18
<b>Min</b>	0.02	0.38	0.30	2.5	0.98	0.95	0.82	0.26	0.11	0.02	0.00	0.00
<b>Ac-ft</b>	17	115	114	334	191	77	85	41	40	3.4	1.7	2.3
<b>Cfsm</b>	0.24	1.65	1.58	4.65	2.94	1.07	1.23	0.57	0.57	0.05	0.02	0.03
<b>In.</b>	0.27	1.84	1.82	5.36	3.06	1.24	1.37	0.66	0.64	0.05	0.03	0.04

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2006, BY WATER YEAR (WY)**

	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>Mean</b>	1.47	4.50	4.28	6.30	3.25	2.29	2.58	0.60	0.27	0.08	0.05	0.10
<b>Max</b>	3.51	8.58	9.85	9.03	4.32	3.10	5.49	1.06	0.67	0.22	0.16	0.39
(WY)	(2004)	(2005)	(2005)	(2005)	(2004)	(2004)	(2005)	(2003)	(2006)	(2005)	(2004)	(2004)
<b>Min</b>	0.01	0.30	1.67	5.03	1.94	1.25	0.56	0.31	0.11	0.03	0.01	0.01
(WY)	(2003)	(2003)	(2003)	(2003)	(2005)	(2006)	(2004)	(2004)	(2005)	(2003)	(2003)	(2002)

**12202310 CARPENTER CREEK NEAR BELLINGHAM, WA—Continued****SUMMARY STATISTICS**

	<b>Calendar Year 2005</b>	<b>Water Year 2006</b>	<b>Water Years 2002 - 2006</b>	
<b>Annual total</b>	702.70	514.90		
<b>Annual mean</b>	1.93	1.41	2.14	
<b>Highest annual mean</b>			3.30	2005
<b>Lowest annual mean</b>			1.41	2006
<b>Highest daily mean</b>	61	Jan 18	18	Jan 30
<b>Lowest daily mean</b>	0.00	Sep 4	0.00	Aug 29
<b>Annual seven-day minimum</b>	0.01	Sep 1	0.00	Sep 2
<b>Annual runoff (ac-ft)</b>	1,390	1,020	1,550	
<b>Annual runoff (cfsm)</b>	1.65	1.21	1.83	
<b>Annual runoff (inches)</b>	22.34	16.37	24.91	
<b>10 percent exceeds</b>	3.6	3.8	4.6	
<b>50 percent exceeds</b>	0.50	0.90	0.66	
<b>90 percent exceeds</b>	0.02	0.02	0.01	

